ELSEVIER Computers and Electronics in Agriculture 12 (1995) 337–338

Computers and electronics in agriculture

# Contents of *Computers and Electronics in Agriculture*, Vol. 12

VOL. 12 NO. 1 JANUARY 1995

Object-oriented modeling and GIS integration in a decision support system for the management of eastern hemlock looper in Newfoundland
J.M. Power and H. Saarenmaa (Chalk River, Ont., Canada) ..... 1

Whole farm economic evaluation of East Coast fever immunization strategies on farms in the Uasin Gishu District of Kenya
H.O. Nyangito (Nairobi, Kenya), J.W. Richardson (College Station, TX, USA), A.W. Mukhebi (Nairobi, Kenya), D.S. Mundy (Knoxville, TN, USA), P. Zimmel and J. Namken (College Station, TX, USA) ..... 19

Optimization of agricultural tractor cab suspension using the evolution method
P.-A. Hansson (Uppsala, Sweden) ..... 35

The impact of a decision support system for strategic pig farm planning on the advice of extension officers
G.B.C. Backus (Rosmalen, The Netherlands), G.Th. Timmer (Amsterdam, The Netherlands), A.A. Dijkhuizen (Wageningen, Amsterdam), V.R. Eidman and R.P. King (Minneapolis, MN, USA ..... 51

Path generation for robotic cutting of carcasses
I.H.C. Wadie and K. Khodabandehloo (Bristol, UK) ..... 65

**Book Review**

Statistical Analysis of Regional Yield Trials: AMMI Analysis of Factorial Designs
G.C. Arnold (Palmerston North, New Zealand) ..... 81

VOL. 12 NO. 2 MARCH 1995

**Review**

Knowledge and information transfer in agriculture using hypermedia: a system review
M.J. Carrascal (Freising, Germany), L.F. Pau (Sophia Antipolis, France) and L. Reiner (Freising, Germany) ..... 83

**Research Papers**

Optical teat inspection for automatic milking systems
C. Bull, T. Mottram and H. Wheeler (Silsoe, UK) ..... 121

An instrumented, field-scale research facility for drainage and water quality studies
R. Tait, C.A. Madramootoo and P. Enright (Sainte Anne-de-Bellevue, Que., Canada) ..... 131

0168-1699/95/$09.50 © 1995 Elsevier Science B.V. All rights reserved.

Determination of row position in small-grain crops by analysis of video images
H.J. Olsen (Uppsala, Sweden) ..... 147
Implementing direct Monte Carlo simulation in batch mode
D. Kumar and S.J. Thomson (Blacksburg, VA, USA) ..... 163

**Announcement** ..... 173

**Guide for Authors** ..... 175

VOL. 12 NO. 3 APRIL 1995

**Review**
Emergent computation and the modeling and management of ecological systems
R.L. Olson and R.A. Sequeira (Mississippi State, MS, USA) ..... 183

**Research Papers**
A multi-purpose firmness tester for fruits and vegetables
F. Duprat, M.-G. Grotte, E. Pietri (Avignon, France) and C.J. Studman (Palmerston North, New Zealand) ..... 211
Computer control for investigating water and chemical transport in a large isolated soil block
N.M. Holden (Plymouth, UK), J.F. Dowd (Athens, USA), A.G. Williams (Plymouth, UK) and D. Scholefield (Okehampton, UK) ..... 225
VEMM: predicting the effects of agricultural management and environmental conditions on semi-natural vegetation
R.A. Sanderson and S.P. Rushton (Newcastle upon Tyne, UK) ..... 237
A simulation model of woollen system carpet yarn manufacture for production planning applications
J.S. Daly, B.D. Cassidy and G.D. Kulasiri (Canterbury, New Zealand) ..... 249

VOL. 12 NO. 4 JUNE 1995

Model based location of pigs in scenes
C.M. Onyango, J.A. Marchant and B.P. Ruff (Silsoe, UK) ..... 261
Applying machine learning to agricultural data
R.J. McQueen, S.R. Garner, C.G. Nevill-Manning and I.H. Witten (Hamilton, New Zealand) 275
An intelligent front-end for selecting evapotranspiration estimation methods
S. Mohan and N. Arumugam (Madras, India) ..... 295
A computer program to improve the control of grapevine downy mildew
M. Rosa, B. Gozzini, S. Orlandini and L. Seghi (Firenze, Italy) ..... 311
"SPAM": a computer model for management of spare-parts inventories in agricultural machinery dealerships
I. Haffar (Al Ain, United Arab Emirates) ..... 323

**Author index** ..... 333

**Subject index** ..... 335

**Contents of *Computers and Electronics in Agriculture*, Vol. 12** ..... 337